Testing the Future… Today

Mr. Roger C. Crane
412th Test Wing
Senior Technical Advisor

A2249

TEAM EDWARDS

… ACC (31st TES) … AFOTEC (Det 5) … AETC (Det 1) …

AIR FORCE MISSION

To Defend the United States and Protect Its Interests Through Aerospace Power

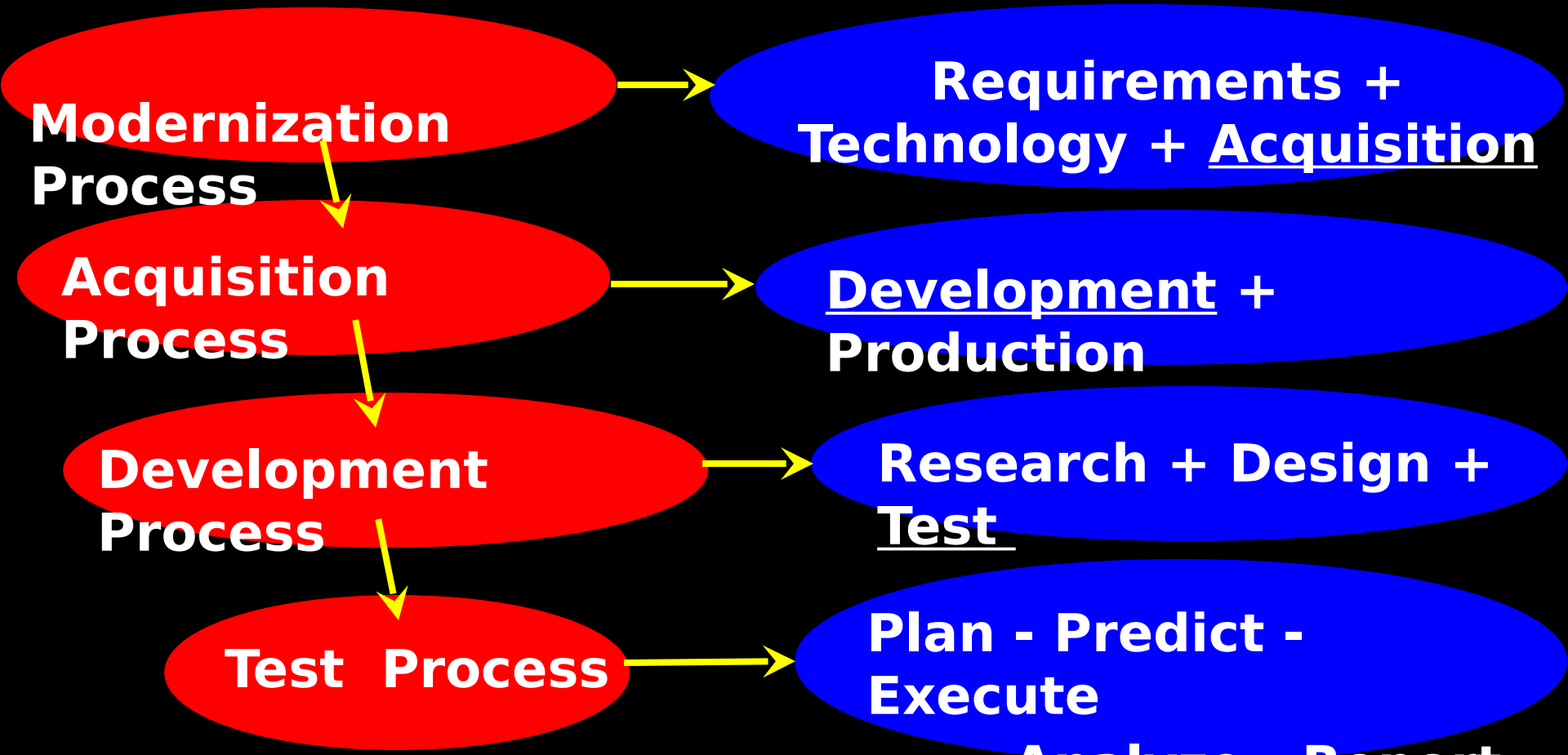
AFMC MISSION

To Develop, Acquire, and Sustain Aerospace Power Needed to Defend the United States and Its Interests…Today and Tomorrow

AFFTC MISSION

Provide Aerospace Research, Development, Test, Evaluation, and Support for the United States and Our Allies

WHERE WE FIT


Modernization Process
Requirements + Technology + Acquisition
Acquisition Process
Development + Production
Development Process
Research + Design + Test
Test Process
Plan - Predict - Execute
Analyze - Report

AFFTC VISION

We Will Be the Recognized Center of Excellence for Aerospace Research, Development, Test, and Evaluation…

Warriors Supporting Warriors
Agile, Responsive, and Competitive
A Great Place to Live and Work

Testing the Future Today-Toward the Unexplored

AFFTC HISTORY

U.S.POST OFFICE
MUROC MERCANTILE

542-0-108A-23) VIEW OF BOMB POURING AREA

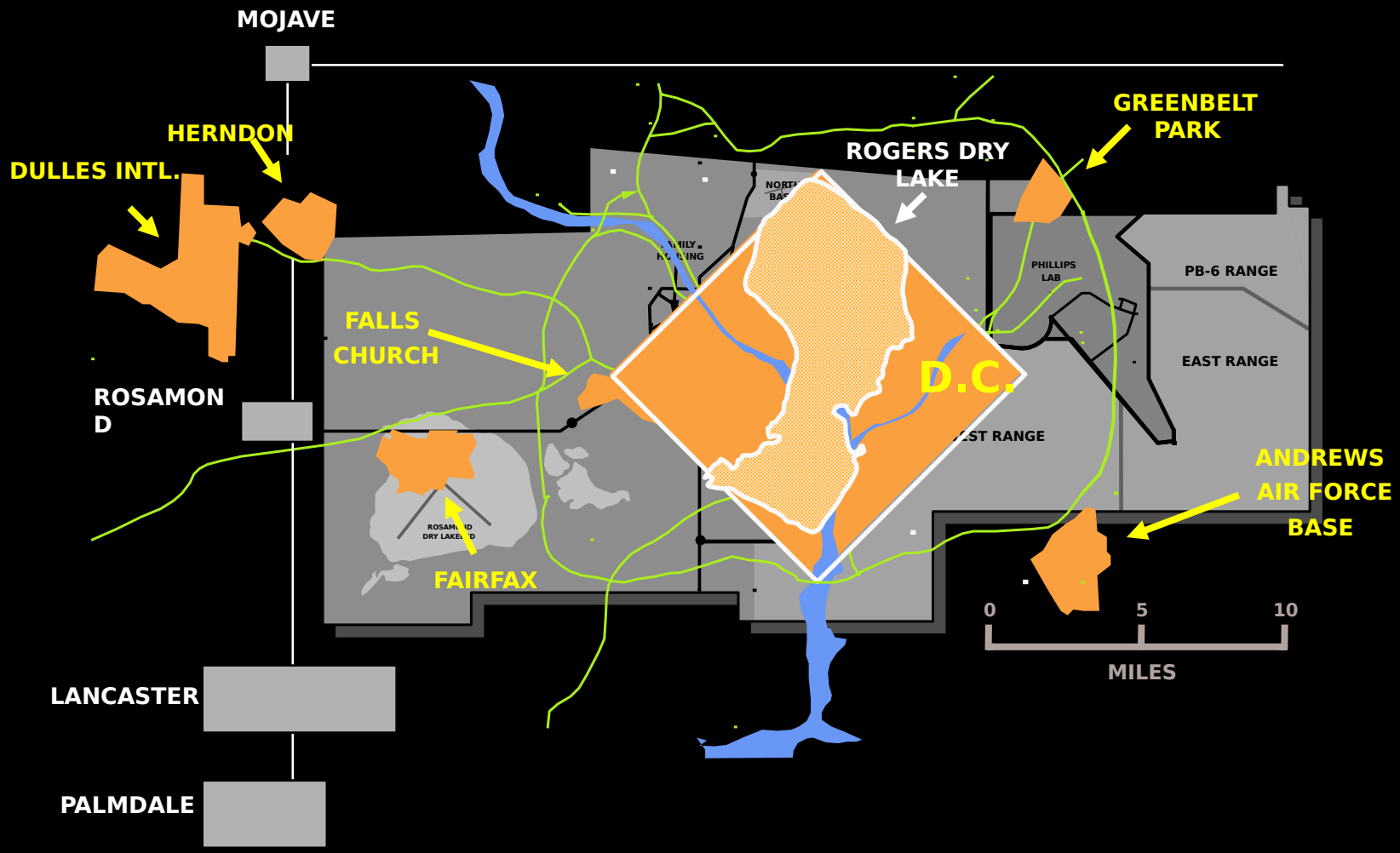
NORTH BASE
October 1941
(Test Site)
EAST CAMP
September 1933
(Bombing Range)
MUROC
Early 1910
(Town Settlement)
MAIN BASE
Early 50s
(Flight Test)
SOUTH BASE
December 1941
(Training Base)
MUROC MARU
Early 1942
(Bombing Target)

ASSETS

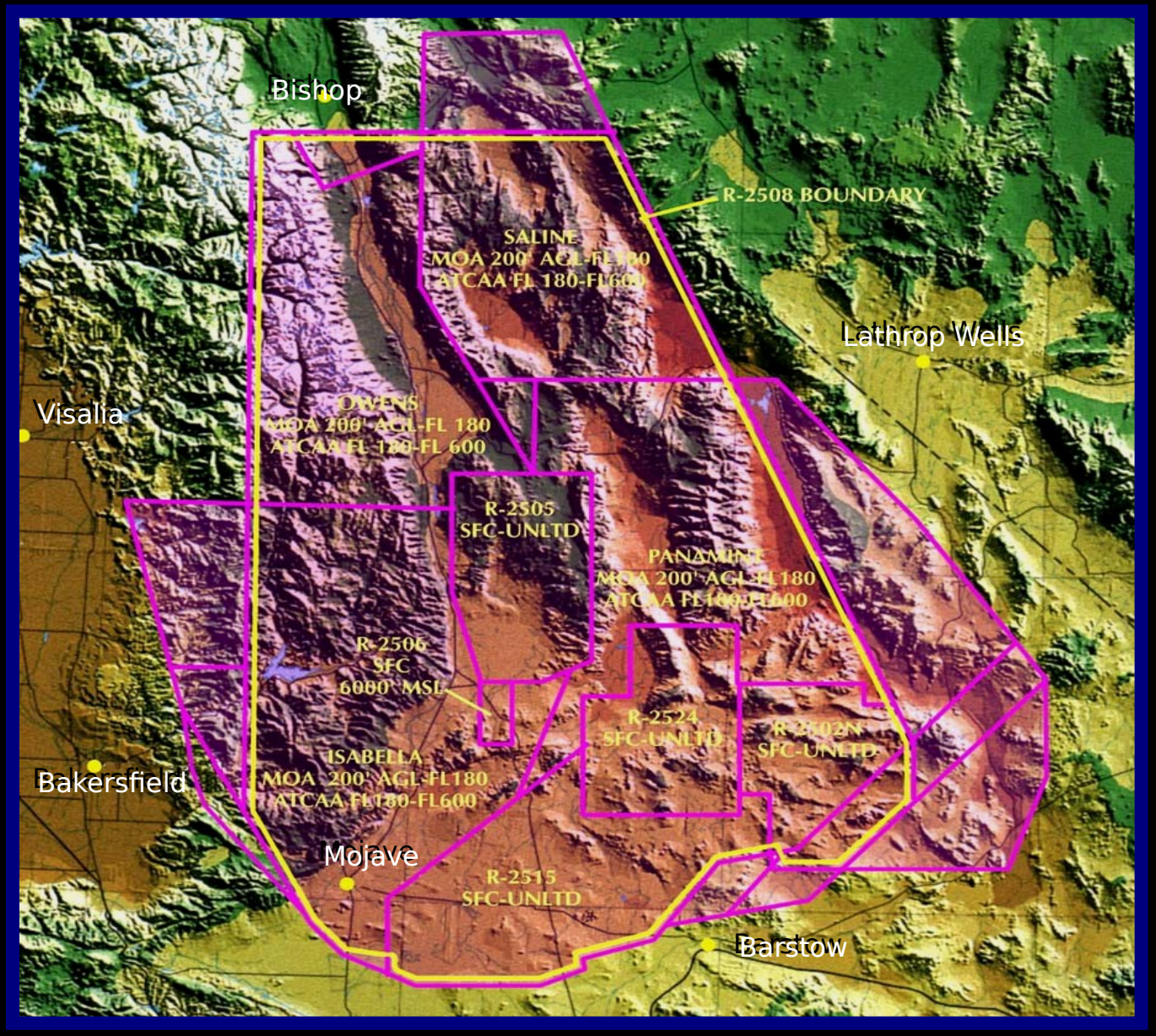
- *Remote Location*
- *Varied Topography*
- *350 Testable Days Per Year*
- *Extensive Range Airspace*
- *Instrumented Facilities, Test Aircraft, & Ranges*

- *301,000 Acres*
- *29,000 Ft Concrete Runways*
- *68 Miles Lakebed Runways*
- *1M Sq Ft in 19 Hangars*
- *1.8M Sq Ft Technical Support Space*
- *13.5M Sq Ft Ramp Space*

EDWARDS RELATIVE SIZE



AIRSPACE


Bishop
R-2508 BOUNDARY
SALINE
MOA 200' AGL-FL180
ATCAA FL 180-FL600
Lathrop Wells
Visalia
OWENS
MOA 200' AGL-FL 180
ATCAA FL 180-FL 600
R-2505
SFC-UNLTD
PANAMINT
MOA 200' AGL-FL180
ATCAA FL180-FL600
R-2506
SFC
6000' MSL
R-2524
SFC-UNLTD
R-2502N
SFC-UNLTD
ISABELLA
MOA 200' AGL-FL180
ATCAA FL180-FL600
Bakersfield
Mojave
R-2515
SFC-UNLTD
Barstow

AIRSPACE

SALT LAKE
UTTR
UT
TONOPAH/NELLIS
COMPLEX NV
SAN FRANCISCO
R-2508
WSMC
PT. MUGU
PALMS
PMTC
EL
CENTRO
YUMA

THE PEOPLE

Our Most Important Resource!

AFFTC Total	7,945
Officer	403
Enlisted	2,242
Civilian	2,847
Contractors	2,453
AF Reserve	224
Marine Reserve	142
NASA	635
NASA Contractors	621
AFRL	200
AFRL Contractors	296
Associates	1,411
NAF	316
Base Exchange	263

FY01 Total Population – 16,344

AFFTC HIGHER EDUCATION LEVELS

Officers		Enlisted	
Bachelors	201	< 2yrs college	2,311
Masters	290	> 3yrs college	32
Doctorate	42	Associate	368
Civilians			
Bachelors	119		
Masters	16		
Bachelors	606		
Masters	329		
Doctorate	48		

Officers with Masters or Higher	62%
Civilians with Bachelors or Higher	34%
Enlisted with Associates or Higher	18%

EDWARDS
ECONOMIC IMPACT – FY01

Payroll	*$418M*
Construction	*$ 69M*
Contracts	*$194M*
Materials, health (gov cost),educ & train	*$ 37M*
Indirect value of jobs created	*$448M*
Total	***$1166M***

THE COMMUNITY

YEARS OF T&E EXPERTISE

MATURE TEST PROCESS

TEST

ANALYZE

PREDICT

IMPROVED MODELS

READY FOR OT

REPORT

COMPARE

REQUIREMENTS REFERENCES

MUCH MORE THAN FLIGHT TEST

Is Just the Tip of the Test Iceberg!

AFFTC TEST & EVALUATION MISSION AREAS

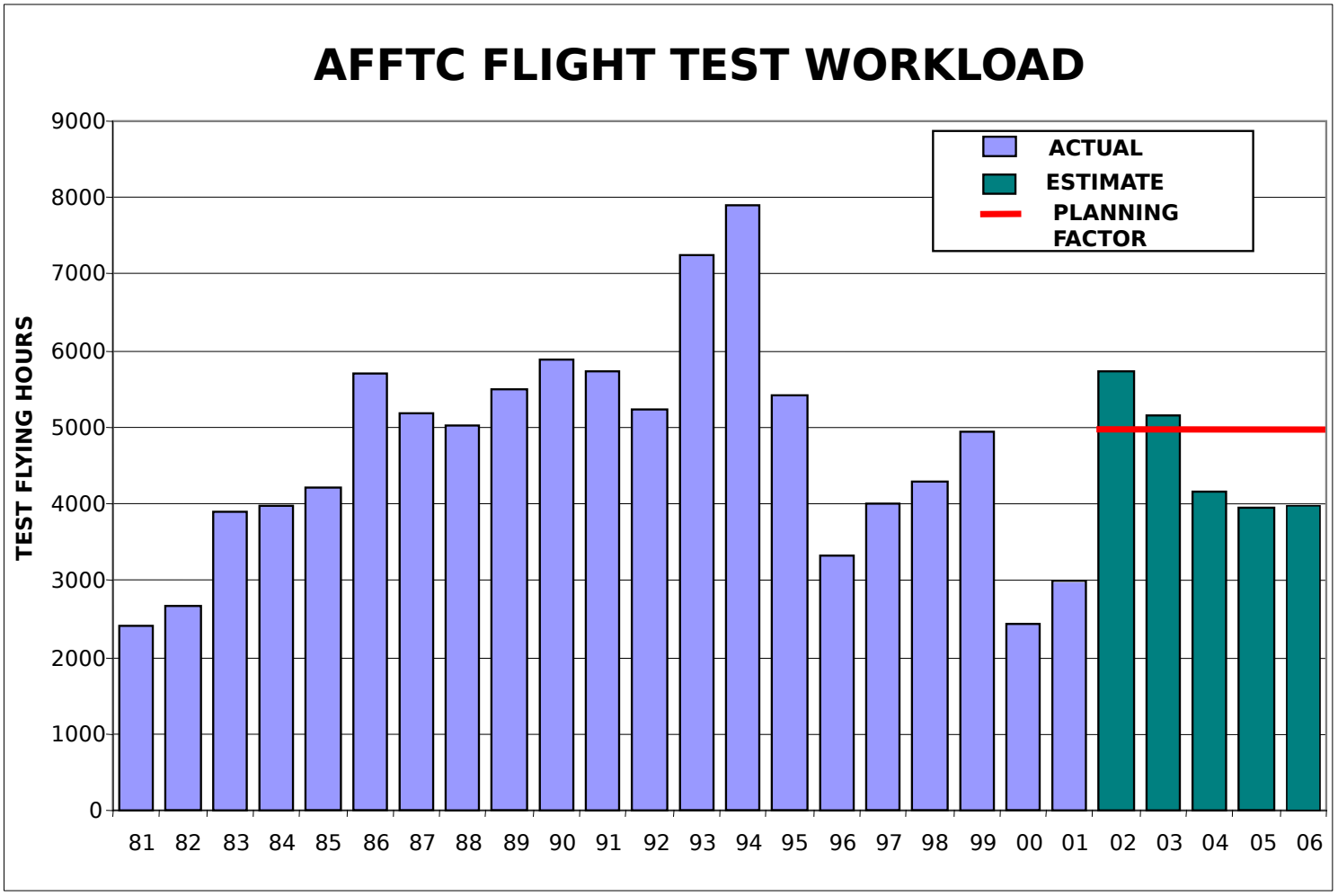
Airframe

Propulsion

Avionics

Electronic Warfare

FLIGHT TEST WORKLOAD



AFFTC TEST PROJECTS

FIGHTERS

AIRLIFTERS

BOMBERS

UAV / UCAV

ACCESS TO SPACE

TANKERS

AIRBORNE LASER

FINAL THOUGHTS

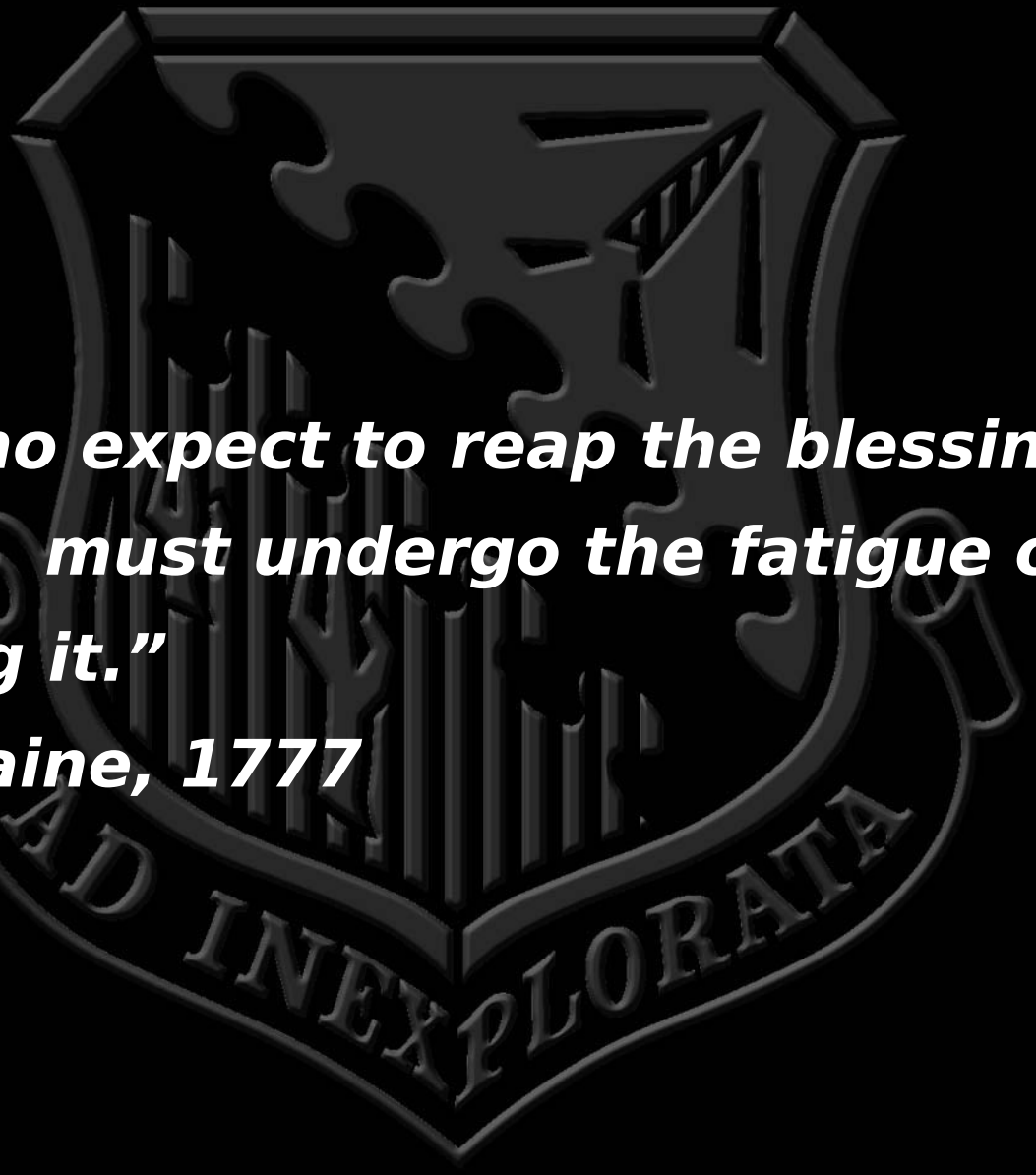
- Very Special Place

- History of Modern Military Aviation

- Tough Physical Environment

- Quality of Life Always a Challenge

- Workforce – A National Asset



“Those who expect to reap the blessings of freedom must undergo the fatigue of supporting it.”

Thomas Paine, 1777